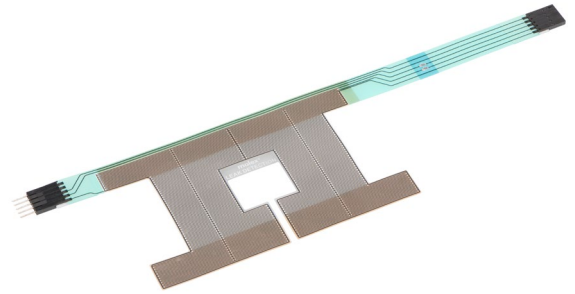


Leak Detection Flex Circuits >

A customizable solution used in liquid-cooled server applications, Leak Detection Flex Circuits from Molex deliver flexible, high-reliability monitoring for early leak detection in data center environments. Designed to be integrated into components and subassemblies within the server tray, these circuit assemblies work seamlessly with Molex connectors, cables and monitoring systems to safeguard uptime and protect critical infrastructure.



PET circuit shown in image.
FPC is provided based on design criteria.

ADVANTAGES AND FEATURES

Protects vital infrastructure

These circuits enable comprehensive, real-time monitoring across components and subassemblies within liquid-cooled racks, providing fast, automated responses to leaks and minimizing the risk of equipment damage or costly downtime.

Avoids interference with system components

Thin, lightweight and customizable leak-detection circuits fit seamlessly into diverse server rack layouts and components, minimizing design complexity and reducing integration constraints.

Voltage	Up to 50V AC
Construction	Customizable—copper-based flexible printed circuit (FPC) or silver-based printed electronics (PET)

Streamlines rack-level system integration

Optimized to work with various Molex connectors and Leak Detection Cables, these customizable flex circuits enable fast and reliable leak detection throughout the rack.

Delivers cost-effective reliability

High-performance copper-based FPC or silver-printed PET solutions enable data centers to tailor exceptionally durable and dependable leak-detection capabilities to application-specific requirements.

Minimizes response time for faster leak detection

These flex circuits can be networked to cover all liquid-fitting locations and the entire rack along the fluid path, helping prevent component damage through early detection of fluid incursion and rapidly signaling action to the closed system.

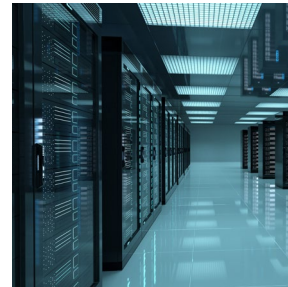
MARKETS AND APPLICATIONS

Servers and Storage

AI and machine-learning systems
Central processing unit/graphics processing unit cold plates
High-density liquid-cooled accelerators
High-reliability computing environments
Hyperscale data center infrastructure monitoring systems
Liquid-cooled server rack components
Liquid-cooled server subassemblies
Manifolds and distribution blocks



AI and Machine-Learning Systems



Hyperscale Data Centers



Liquid-Cooled Server Rack Components

Leak Detection Flex Circuits >

SPECIFICATIONS

Reference Information

Packaging: Box
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes

Electrical

Voltage (max.): 50V AC

Mechanical

Number of Circuits: Customizable
Circuit Outline/Shape: Customizable
Cable Connectors: Customizable

Mechanical

FPC Substrate: Polyimide
FPC Contact: Copper
Operating Temperatures: -40 to +105°C